

## SEQUENCE LISTING

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<110> Sone, Toshio  
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Iwama, Akiko  
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<120> Peptide-Based Immunotherapeutic Agent for Treating Allergic Diseases

<130> SPO-103

<140> US 09/142,524

<141> 1998-09-09

<150> PCT/JP97/00740

<151> 1997-03-10

<160> 174

<170> PatentIn version 3.1

<210> 1

<211> 80

<212> PRT

<213> Cryptomeria japonica

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Met Lys Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asn Arg Arg Val  
1 5 10 15

Phe Ile Lys Arg Val Ser Asn Val Ile Ile His Gly Arg Arg Ile Asp  
20 25 30

Ile Phe Ala Ser Lys Asn Phe His Leu Gln Lys Asn Thr Ile Gly Thr  
35 40 45

Gly Arg Arg Ile Ser Leu Lys Leu Thr Ser Gly Lys Ile Ala Ser Arg  
50 55 60

Arg Val Asp Gly Ile Ile Ala Ala Tyr Gln Asn Pro Ala Ser Trp Lys  
65 70 75 80

<210> 2

<211> 105

<212> PRT

<213> Cryptomeria japonica

<400> 2

Met Lys Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asn Arg Arg Val  
1 5 10 15

Phe Ile Lys Arg Val Ser Asn Val Ile Ile His Gly Arg Arg Ile Asp  
20 25 30

Ile Phe Ala Ser Lys Asn Phe His Leu Gln Lys Asn Thr Ile Gly Thr  
35 40 45

Gly Arg Arg Trp Lys Asn Asn Arg Ile Trp Leu Gln Phe Ala Lys Leu  
50 55 60

Thr Gly Phe Thr Leu Met Gly Arg Arg Leu Lys Met Pro Met Tyr Ile  
65 70 75 80

Ala Gly Tyr Lys Thr Phe Asp Gly Arg Arg Val Asp Gly Ile Ile Ala  
85 90 95

Ala Tyr Gln Asn Pro Ala Ser Trp Lys  
100 105

<210> 3  
<211> 134  
<212> PRT  
<213> Cryptomeria japonica

<400> 3

Met Lys Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asn Arg Arg Val  
1 5 10 15

Phe Ile Lys Arg Val Ser Asn Val Ile Ile His Gly Arg Arg Ile Asp  
20 25 30

Ile Phe Ala Ser Lys Asn Phe His Leu Gln Lys Asn Thr Ile Gly Thr  
35 40 45

SECTION 121

Gly Arg Arg Trp Lys Asn Asn Arg Ile Trp Leu Gln Phe Ala Lys Leu  
50 55 60

Thr Gly Phe Thr Leu Met Gly Arg Arg Pro Leu Trp Ile Ile Phe Ser  
65 70 75 80

SECTION 28

Gly Asn Met Asn Ile Lys Leu Lys Met Pro Met Tyr Ile Ala Gly Tyr

85

90

95

Lys Thr Phe Asp Gly Arg Arg Ala Glu Val Ser Tyr Val His Val Asn  
100 105 110

Gly Ala Lys Phe Ile Arg Arg Val Asp Gly Ile Ile Ala Ala Tyr Gln  
115 120 125

Asn Pro Ala Ser Trp Lys  
130

<210> 4  
<211> 31  
<212> PRT  
<213> Cryptomeria japonica

<400> 4

Ile Phe Ser Lys Asn Leu Asn Ile Lys Leu Asn Met Pro Leu Tyr Ile  
1 5 10 15

Ala Gly Asn Lys Arg Arg Phe Ile Lys Arg Val Ser Asn Val Ile  
20 25 30

<210> 5  
<211> 31  
<212> PRT  
<213> Cryptomeria japonica

<400> 5

Ser Ser Gly Lys Asn Glu Gly Thr Asn Ile Tyr Asn Asn Asn Glu Ala  
1 5 10 15

Phe Lys Val Glu Arg Arg Phe Ile Lys Arg Val Ser Asn Val Ile  
20 25 30

<210> 6  
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<212> PRT  
<213> Cryptomeria japonica

<400> 6

Ile Ser Leu Lys Leu Thr Ser Gly Lys Ile Ala Ser  
1 5 10

<210> 7  
<211> 9  
<212> PRT  
<213> Cryptomeria japonica

<400> 7

Phe Ile Lys Arg Val Ser Asn Val Ile  
1 5

<210> 8  
<211> 17  
<212> PRT  
<213> Cryptomeria japonica

<400> 8

Glu Glu Tyr Leu Ile Leu Ser Ala Arg Asp Val Leu Ala Val Val Ser  
1 5 10 15

93  
Lys

<210> 9  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<400> 9

Lys Ser Met Lys Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asn  
1 5 10 15

<210> 10  
<211> 32  
<212> PRT  
<213> Cryptomeria japonica

<400> 10

Glu Glu Tyr Leu Ile Leu Ser Ala Arg Asp Val Leu Ala Val Val Ser  
1 5 10 15

Lys Arg Arg Met Lys Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asn  
20 25 30

<210> 11  
<211> 20  
<212> PRT  
<213> Cryptomeria japonica

&lt;400&gt; 11

Ile Phe Ser Lys Asn Leu Asn Ile Lys Leu Asn Met Pro Leu Tyr Ile  
1 5 10 15

Ala Gly Asn Lys  
20

&lt;210&gt; 12

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;400&gt; 12

Ser Ser Gly Lys Asn Glu Gly Thr Asn Ile Tyr Asn Asn Asn Glu Ala  
1 5 10 15

g3 Phe Lys Val Glu  
20

&lt;210&gt; 13

&lt;211&gt; 13

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;400&gt; 13

Val Phe Ile Lys Arg Val Ser Asn Val Ile Ile His Gly  
1 5 10

&lt;210&gt; 14

&lt;211&gt; 9

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;400&gt; 14

Ser Ile Lys Arg Val Ser Asn Val Ile  
1 5

&lt;210&gt; 15

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

<223> Cryj1 peptide, Figure 1, Row 1

<400> 15

Asp Asn Pro Ile Asp Ser Cys Trp Arg Gly Asp Ser Asn Trp Ala  
1 5 10 15

<210> 16

<211> 15

<212> PRT

<213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE

<222> (1)..(15)

<223> Cryj1 peptide, Figure 1, Row 2

93  
<400> 16

Ser Cys Trp Arg Gly Asp Ser Asn Trp Ala Gln Asn Arg Met Lys  
1 5 10 15

<210> 17

<211> 15

<212> PRT

<213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE

<222> (1)..(15)

<223> Cryj1 peptide, Figure 1, Row 3

<400> 17

Asp Ser Asn Trp Ala Gln Asn Arg Met Lys Leu Ala Asp Cys Ala  
1 5 10 15

<210> 18

<211> 15

<212> PRT

<213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE

<222> (1)..(15)

<223> Cryj1 peptide, Figure 1, Row 4

<400> 18

Gln Asn Arg Met Lys Leu Ala Asp Cys Ala Val Gly Phe Gly Ser  
1 5 10 15

<210> 19  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 5

<400> 19

Leu Ala Asp Cys Ala Val Gly Phe Gly Ser Ser Thr Met Gly Gly  
1 5 10 15

g3  
<210> 20  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 6

<400> 20

Val Gly Phe Gly Ser Ser Thr Met Gly Gly Lys Gly Gly Asp Leu  
1 5 10 15

<210> 21  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 7

<400> 21

Ser Thr Met Gly Gly Lys Gly Gly Asp Leu Tyr Thr Val Thr Asn  
1 5 10 15


<210> 22

<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 8

<400> 22

Lys Gly Gly Asp Leu Tyr Thr Val Thr Asn Ser Asp Asp Asp Pro  
1 5 10 15

 <210> 23  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 9

<400> 23

Tyr Thr Val Thr Asn Ser Asp Asp Asp Pro Val Asn Pro Ala Pro  
1 5 10 15

<210> 24  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 10

<400> , 24

Ser Asp Asp Asp Pro Val Asn Pro Ala Pro Gly Thr Leu Arg Tyr  
1 5 10 15

<210> 25  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>



<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 11

<400> 25

Val	Asn	Pro	Ala	Pro	Gly	Thr	Leu	Arg	Tyr	Gly	Ala	Thr	Arg	Asp
1				5					10					15

<210> 26  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 12

<400> 26

Gly	Thr	Leu	Arg	Tyr	Gly	Ala	Thr	Arg	Asp	Arg	Pro	Leu	Trp	Ile
1				5					10					15

<210> 27  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 13

<400> 27

Gly	Ala	Thr	Arg	Asp	Arg	Pro	Leu	Trp	Ile	Ile	Phe	Ser	Gly	Asn
1				5					10					15

<210> 28  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 14

&lt;400&gt; 28

Arg Pro Leu Trp Ile Ile Phe Ser Gly Asn Met Asn Ile Lys Leu  
1 5 10 15

&lt;210&gt; 29

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 15

&lt;400&gt; 29

Ile Phe Ser Gly Asn Met Asn Ile Lys Leu Lys Met Pro Met Tyr  
1 5 10 15

&lt;210&gt; 30

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 16

&lt;400&gt; 30

Met Asn Ile Lys Leu Lys Met Pro Met Tyr Ile Ala Gly Tyr Lys  
1 5 10 15

&lt;210&gt; 31

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 17

&lt;400&gt; 31

Lys Met Pro Met Tyr Ile Ala Gly Tyr Lys Thr Phe Asp Gly Arg  
1 5 10 15

<210> 32  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 18

<400> 32

Ile Ala Gly Tyr Lys Thr Phe Asp Gly Arg Gly Ala Gln Val Tyr  
1 5 10 15

93  
<210> 33  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 19

<400> 33

Thr Phe Asp Gly Arg Gly Ala Gln Val Tyr Ile Gly Asn Gly Gly  
1 5 10 15

<210> 34  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 120

<400> 34

Gly Ala Gln Val Tyr Ile Gly Asn Gly Gly Pro Cys Val Phe Ile  
1 5 10 15

<210> 35  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 21

<400> 35

Ile	Gly	Asn	Gly	Gly	Pro	Cys	Val	Phe	Ile	Lys	Arg	Val	Ser	Asn
1			5						10				15	

<210> 36  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 22

<400> 36

Pro	Cys	Val	Phe	Ile	Lys	Arg	Val	Ser	Asn	Val	Ile	Ile	His	Gly
1				5					10					15

<210> 37  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 23

<400> 37

Lys	Arg	Val	Ser	Asn	Val	Ile	Ile	His	Gly	Leu	His	Leu	Tyr	Gly
1				5					10					15

<210> 38  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 24

&lt;400&gt; 38

Val	Ile	Ile	His	Gly	Leu	His	Leu	Tyr	Gly	Cys	Ser	Thr	Ser	Val
1				5					10					15

&lt;210&gt; 39

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Cryptomeria japonica*

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 25

&lt;400&gt; 39

Leu	His	Leu	Tyr	Gly	Cys	Ser	Thr	Ser	Val	Leu	Gly	Asn	Val	Leu
1				5					10					15

&lt;210&gt; 40

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Cryptomeria japonica*

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 26

&lt;400&gt; 40

Cys	Ser	Thr	Ser	Val	Leu	Gly	Asn	Val	Leu	Ile	Asn	Glu	Ser	Phe
1				5					10					15

&lt;210&gt; 41

&lt;211&gt; 15

&lt;212&gt; PRT

<213> *Cryptomeria japonica*

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 27

&lt;400&gt; 41

Leu	Gly	Asn	Val	Leu	Ile	Asn	Glu	Ser	Phe	Gly	Val	Glu	Pro	Val
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1                      5                      10                      15

<210> 42  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 28

<400> 42

Ile Asn Glu Ser Phe Gly Val Glu Pro Val His Pro Gln Asp Gly  
1                      5                      10                      15

<210> 43  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 29

<400> 43

Gly Val Glu Pro Val His Pro Gln Asp Gly Asp Ala Leu Thr Leu  
1                      5                      10                      15

<210> 44  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 30

<400> 44

His Pro Gln Asp Gly Asp Ala Leu Thr Leu Arg Thr Ala Thr Asn  
1                      5                      10                      15

<210> 45  
<211> 15

<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 31

<400> 45

Asp Ala Leu Thr Leu Arg Thr Ala Thr Asn Ile Trp Ile Asp His  
1 5 10 15

93  
<210> 46  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 32

<400> 46

Arg Thr Ala Thr Asn Ile Trp Ile Asp His Asn Ser Phe Ser Asn  
1 5 10 15

<210> 47  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 33

<400> 47

Ile Trp Ile Asp His Asn Ser Phe Ser Asn Ser Ser Asp Gly Leu  
1 5 10 15

<210> 48  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 34

&lt;400&gt; 48

Asn	Ser	Phe	Ser	Asn	Ser	Ser	Asp	Gly	Leu	Val	Asp	Val	Thr	Leu
1				5					10					15

&lt;210&gt; 49

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 35

&lt;400&gt; 49

Ser	Ser	Asp	Gly	Leu	Val	Asp	Val	Thr	Leu	Ser	Ser	Thr	Gly	Val
1				5					10					15

&lt;210&gt; 50

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 36

&lt;400&gt; 50

Val	Asp	Val	Thr	Leu	Ser	Ser	Thr	Gly	Val	Thr	Ile	Ser	Asn	Asn
1				5					10					15

&lt;210&gt; 51

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 37

&lt;400&gt; 51



Ser Ser Thr Gly Val Thr Ile Ser Asn Asn Leu Phe Phe Asn His  
1 5 10 15

<210> 52  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 38

<400> 52

Thr Ile Ser Asn Asn Leu Phe Phe Asn His His Lys Val Met Leu  
1 5 10 15

<210> 53  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 39

<400> 53

Leu Phe Phe Asn His His Lys Val Met Leu Leu Gly His Asp Asp  
1 5 10 15

<210> 54  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 40

<400> 54

His Lys Val Met Leu Leu Gly His Asp Asp Ala Tyr Ser Asp Asp  
1 5 10 15

<210> 55  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 41

<400> 55

Leu Gly His Asp Asp Ala Tyr Ser Asp Asp Lys Ser Met Lys Val  
1 5 10 15

g3  
<210> 56  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 42

<400> 56

Ala Tyr Ser Asp Asp Lys Ser Met Lys Val Thr Val Ala Phe Asn  
1 5 10 15

<210> 57  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 43

<400> 57

Lys Ser Met Lys Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asn  
1 5 10 15

<210> 58  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 44

<400> 58

Thr Val Ala Phe Asn Gln Phe Gly Pro Asn Cys Gly Gln Arg Met  
1 5 10 15

<210> 59  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

g3  
<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 45

<400> 59

Gln Phe Gly Pro Asn Cys Gly Gln Arg Met Pro Arg Ala Arg Tyr  
1 5 10 15

<210> 60  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 46

<400> 60

Cys Gly Gln Arg Met Pro Arg Ala Arg Tyr Gly Leu Val His Val  
1 5 10 15

<210> 61  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 47

&lt;400&gt; 61

Pro	Arg	Ala	Arg	Tyr	Gly	Leu	Val	His	Val	Ala	Asn	Asn	Asn	Tyr
1				5					10					15

&lt;210&gt; 62

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 48

&lt;400&gt; 62

Gly	Leu	Val	His	Val	Ala	Asn	Asn	Asn	Tyr	Asp	Pro	Trp	Thr	Ile
1				5					10					15

&lt;210&gt; 63

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 49

&lt;400&gt; 63

Ala	Asn	Asn	Asn	Tyr	Asp	Pro	Trp	Thr	Ile	Tyr	Ala	Ile	Gly	Gly
1				5					10					15

&lt;210&gt; 64

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 50

&lt;400&gt; 64

Asp	Pro	Trp	Thr	Ile	Tyr	Ala	Ile	Gly	Gly	Ser	Ser	Asn	Pro	Thr
1				5					10					15

<210> 65  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 51

<400> 65

g3 Tyr Ala Ile Gly Gly Ser Ser Asn Pro Thr Ile Leu Ser Glu Gly  
1 5 10 15

<210> 66  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 52

<400> 66

Ser Ser Asn Pro Thr Ile Leu Ser Glu Gly Asn Ser Phe Thr Ala  
1 5 10 15

<210> 67  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 53

<400> 67

Ile Leu Ser Glu Gly Asn Ser Phe Thr Ala Pro Asn Glu Ser Tyr  
1 5 10 15

<210> 68  
<211> 15  
<212> PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 54

&lt;400&gt; 68

Asn	Ser	Phe	Thr	Ala	Pro	Asn	Glu	Ser	Tyr	Lys	Lys	Gln	Val	Thr
1				5					10					15

&lt;210&gt; 69

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 55

&lt;400&gt; 69

Pro	Asn	Glu	Ser	Tyr	Lys	Lys	Gln	Val	Thr	Ile	Arg	Ile	Gly	Cys
1				5					10					15

&lt;210&gt; 70

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; 56

&lt;400&gt; 70

Lys	Lys	Gln	Val	Thr	Ile	Arg	Ile	Gly	Cys	Lys	Thr	Ser	Ser	Ser
1				5					10					15

&lt;210&gt; 71

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 57

&lt;400&gt; 71

Ile	Arg	Ile	Gly	Cys	Lys	Thr	Ser	Ser	Ser	Cys	Ser	Asn	Trp	Val
1				5					10					15

&lt;210&gt; 72

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 58

&lt;400&gt; 72

Lys	Thr	Ser	Ser	Ser	Cys	Ser	Asn	Trp	Val	Trp	Gln	Ser	Thr	Gln
1				5					10					15

&lt;210&gt; 73

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 59

&lt;400&gt; 73

Cys	Ser	Asn	Trp	Val	Trp	Gln	Ser	Thr	Gln	Asp	Val	Phe	Tyr	Asn
1				5					10					15

&lt;210&gt; 74

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj1 peptide, Figure 1, Row 60

&lt;400&gt; 74

Trp Gln Ser Thr Gln Asp Val Phe Tyr Asn Gly Ala Tyr Phe Val  
1 5 10 15

<210> 75  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 61

<400> 75

Asp Val Phe Tyr Asn Gly Ala Tyr Phe Val Ser Ser Gly Lys Tyr  
1 5 10 15

<210> 76  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 62

<400> 76

Gly Ala Tyr Phe Val Ser Ser Gly Lys Tyr Glu Gly Gly Asn Ile  
1 5 10 15

<210> 77  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 63

<400> 77

Ser Ser Gly Lys Tyr Glu Gly Gly Asn Ile Tyr Thr Lys Lys Glu  
1 5 10 15

<210> 78



<211> 15  
<212> PRT  
<213> Cryptomeria japonica  
  
<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 64

<400> 78

Glu Gly Gly Asn Ile Tyr Thr Lys Lys Glu Ala Phe Asn Val Glu  
1 5 10 15

g3  
<210> 79  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 65

<400> 79

Tyr Thr Lys Lys Glu Ala Phe Asn Val Glu Asn Gly Asn Ala Thr  
1 5 10 15

<210> 80  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 66

<400> 80

Ala Phe Asn Val Glu Asn Gly Asn Ala Thr Pro Gln Leu Thr Lys  
1 5 10 15

<210> 81  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 67

<400> 81

Asn Gly Asn Ala Thr Pro Gln Leu Thr Lys Asn Ala Gly Val Leu  
1 5 10 15

<210> 82  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

g2  
<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 68

<400> 82

Pro Gln Leu Thr Lys Asn Ala Gly Val Leu Thr Cys Ser Leu Ser  
1 5 10 15

<210> 83  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj1 peptide, Figure 1, Row 69

<400> 83

Thr Lys Asn Ala Gly Val Leu Thr Cys Ser Leu Ser Lys Arg Cys  
1 5 10 15

<210> 84  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 1

&lt;400&gt; 84

Ala Ile Asn Ile Phe Asn Val Glu Lys Tyr Gly Ala Val Gly Asp  
1 5 10 15

&lt;210&gt; 85

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 2

&lt;400&gt; 85

Asn Val Glu Lys Tyr Gly Ala Val Gly Asp Gly Lys His Asp Cys  
1 5 10 15

&lt;210&gt; 86

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 3

&lt;400&gt; 86

Gly Ala Val Gly Asp Gly Lys His Asp Cys Thr Glu Ala Phe Ser  
1 5 10 15

&lt;210&gt; 87

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 4

&lt;400&gt; 87

Gly Lys His Asp Cys Thr Glu Ala Phe Ser Thr Ala Trp Gln Ala  
1 5 10 15

<210> 88  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 5

<400> 88

Thr	Glu	Ala	Phe	Ser	Thr	Ala	Trp	Gln	Ala	Ala	Cys	Lys	Asn	Pro
1				5				10						15

<210> 89  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 6

<400> 89

Thr	Ala	Trp	Gln	Ala	Ala	Cys	Lys	Asn	Pro	Ser	Ala	Met	Leu	Leu
1				5				10					15	

<210> 90  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 7

<400> 90

Ala	Cys	Lys	Asn	Pro	Ser	Ala	Met	Leu	Leu	Val	Pro	Gly	Ser	Lys
1				5				10					15	

<210> 91  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 8

<400> 91

Ser Ala Met Leu Leu Val Pro Gly Ser Lys Lys Phe Val Val Asn  
1 5 10 15

<210> 92  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

g3  
<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 9

<400> 92

Val Pro Gly Ser Lys Lys Phe Val Val Asn Asn Leu Phe Phe Asn  
1 5 10 15

<210> 93  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 10

<400> 93

Lys Phe Val Val Asn Asn Leu Phe Phe Asn Gly Pro Cys Gln Pro  
1 5 10 15

<210> 94  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 11

&lt;400&gt; 94

Asn Leu Phe Phe Asn Gly Pro Cys Gln Pro His Phe Thr Phe Lys  
1 5 10 15

&lt;210&gt; 95

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 12

&lt;400&gt; 95

Gly Pro Cys Gln Pro His Phe Thr Phe Lys Val Asp Gly Ile Ile  
1 5 10 15

&lt;210&gt; 96

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 13

&lt;400&gt; 96

His Phe Thr Phe Lys Val Asp Gly Ile Ile Ala Ala Tyr Gln Asn  
1 5 10 15

&lt;210&gt; 97

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 14

&lt;400&gt; 97

Val Asp Gly Ile Ile Ala Ala Tyr Gln Asn Pro Ala Ser Trp Lys

1                      5                      10                      15

<210> 98  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 15

<400> 98

Ala Ala Tyr Gln Asn Pro Ala Ser Trp Lys Asn Asn Arg Ile Trp  
1                      5                      10                      15

93  
<210> 99  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 16

<400> 99

Pro Ala Ser Trp Lys Asn Asn Arg Ile Trp Leu Gln Phe Ala Lys  
1                      5                      10                      15

<210> 100  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 17

<400> 100

Asn Asn Arg Ile Trp Leu Gln Phe Ala Lys Leu Thr Gly Phe Thr  
1                      5                      10                      15

<210> 101  
<211> 15

<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 18

<400> 101

Leu Gln Phe Ala Lys Leu Thr Gly Phe Thr Leu Met Gly Lys Gly  
1 5 10 15

<210> 102  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

g3  
<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 19

<400> 102

Leu Thr Gly Phe Thr Leu Met Gly Lys Gly Val Ile Asp Gly Gln  
1 5 10 15

<210> 103  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 20

<400> 103

Leu Met Gly Lys Gly Val Ile Asp Gly Gln Gly Lys Gln Trp Trp  
1 5 10 15

<210> 104  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE



&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 21

&lt;400&gt; 104

Val	Ile	Asp	Gly	Gln	Gly	Lys	Gln	Trp	Trp	Ala	Gly	Gln	Cys	Lys
1				5				10					15	

&lt;210&gt; 105

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 22

&lt;400&gt; 105

Gly	Lys	Gln	Trp	Trp	Ala	Gly	Gln	Cys	Lys	Trp	Val	Asn	Gly	Arg
1				5					10					15

&lt;210&gt; 106

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 23

&lt;400&gt; 106

Ala	Gly	Gln	Cys	Lys	Trp	Val	Asn	Gly	Arg	Glu	Ile	Cys	Asn	Asp
1				5					10					15

&lt;210&gt; 107

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 24

&lt;400&gt; 107

Trp	Val	Asn	Gly	Arg	Glu	Ile	Cys	Asn	Asp	Arg	Asp	Arg	Pro	Thr
1				5					10					15

<210> 108  
 <211> 15  
 <212> PRT  
 <213> Cryptomeria japonica

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(15)  
 <223> Cryj2 peptide, Figure 2, Row 25

<400> 108

Glu	Ile	Cys	Asn	Asp	Arg	Asp	Arg	Pro	Thr	Ala	Ile	Lys	Phe	Asp
1			5						10					15

g3  
 <210> 109  
 <211> 15  
 <212> PRT  
 <213> Cryptomeria japonica

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(15)  
 <223> Cryj2 peptide, Figure 2, Row 26

<400> 109

Arg	Asp	Arg	Pro	Thr	Ala	Ile	Lys	Phe	Asp	Phe	Ser	Thr	Gly	Leu
1				5					10					15

<210> 110  
 <211> 15  
 <212> PRT  
 <213> Cryptomeria japonica

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(15)  
 <223> Cryj2 peptide, Figure 2, Row 27

<400> 110

Ala	Ile	Lys	Phe	Asp	Phe	Ser	Thr	Gly	Leu	Ile	Ile	Gln	Gly	Leu
1				5					10					15

<210> 111  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 28

<400> 111

Phe	Ser	Thr	Gly	Leu	Ile	Ile	Gln	Gly	Leu	Lys	Leu	Met	Asn	Ser
1				5					10					15

<210> 112  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 29

<400> 112

Ile	Ile	Gln	Gly	Leu	Lys	Leu	Met	Asn	Ser	Pro	Glu	Phe	His	Leu
1				5					10					15

<210> 113  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 30

<400> 113

Lys	Leu	Met	Asn	Ser	Pro	Glu	Phe	His	Leu	Val	Phe	Gly	Asn	Cys
1				5					10					15

<210> 114  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 31

<400> 114

Pro Glu Phe His Leu Val Phe Gly Asn Cys Glu Gly Val Lys Ile  
1 5 10 15

<210> 115  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 32

<400> 115

Val Phe Gly Asn Cys Glu Gly Val Lys Ile Ile Gly Ile Ser Ile  
1 5 10 15

<210> 116  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 33

<400> 116

Glu Gly Val Lys Ile Ile Gly Ile Ser Ile Thr Ala Pro Arg Asp  
1 5 10 15

<210> 117  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 34

&lt;400&gt; 117

Ile	Gly	Ile	Ser	Ile	Thr	Ala	Pro	Arg	Asp	Ser	Pro	Asn	Thr	Asp
1				5					10					15

&lt;210&gt; 118

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 35

&lt;400&gt; 118

g3

Thr	Ala	Pro	Arg	Asp	Ser	Pro	Asn	Thr	Asp	Gly	Ile	Asp	Ile	Phe
1				5					10					15

&lt;210&gt; 119

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 36

&lt;400&gt; 119

Ser	Pro	Asn	Thr	Asp	Gly	Ile	Asp	Ile	Phe	Ala	Ser	Lys	Asn	Phe
1				5					10					15

&lt;210&gt; 120

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 37

&lt;400&gt; 120

Gly	Ile	Asp	Ile	Phe	Ala	Ser	Lys	Asn	Phe	His	Leu	Gln	Lys	Asn
1				5					10					15

<210> 121  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 38

<400> 121

Ala	Ser	Lys	Asn	Phe	His	Leu	Gln	Lys	Asn	Thr	Ile	Gly	Thr	Gly
1			5						10					15

gz  
<210> 122  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 39

<400> 122

His	Leu	Gln	Lys	Asn	Thr	Ile	Gly	Thr	Gly	Asp	Asp	Cys	Val	Ala
1			5						10					15

<210> 123  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 40

<400> 123

Thr	Ile	Gly	Thr	Gly	Asp	Asp	Cys	Val	Ala	Ile	Gly	Thr	Gly	Ser
1			5						10					15

<210> 124  
<211> 15  
<212> PRT

<213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE

<222> (1)..(15)

<223> Cryj2 peptide, Figure 2, Row 41

<400> 124

Asp Asp Cys Val Ala Ile Gly Thr Gly Ser Ser Asn Ile Val Ile  
1 5 10 15

<210> 125

<211> 15

<212> PRT

<213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE

<222> (1)..(15)

<223> Cryj2 peptide, Figure 2, Row 42

<400> 125

Ile Gly Thr Gly Ser Ser Asn Ile Val Ile Glu Asp Leu Ile Cys  
1 5 10 15

<210> 126

<211> 15

<212> PRT

<213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE

<222> (1)..(15)

<223> Cryj2 peptide, Figure 2, Row 43

<400> 126

Ser Asn Ile Val Ile Glu Asp Leu Ile Cys Gly Pro Gly His Gly  
1 5 10 15

<210> 127

<211> 15

<212> PRT

<213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE

<222> (1)..(15)

<223> Cryj2 peptide, Figure 2, Row 44

<400> 127

Glu Asp Leu Ile Cys Gly Pro Gly His Gly Ile Ser Ile Gly Ser  
1 5 10 15

<210> 128

<211> 15

<212> PRT

<213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE

<222> (1)..(15)

<223> Cryj2 peptide, Figure 2, Row 45

93  
<400> 128

Gly Pro Gly His Gly Ile Ser Ile Gly Ser Leu Gly Arg Glu Asn  
1 5 10 15

<210> 129

<211> 15

<212> PRT

<213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE

<222> (1)..(15)

<223> Cryj2 peptide, Figure 2, Row 46

<400> 129

Ile Ser Ile Gly Ser Leu Gly Arg Glu Asn Ser Arg Ala Glu Val  
1 5 10 15

<210> 130

<211> 15

<212> PRT

<213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE

<222> (1)..(15)

<223> Cryj2 peptide, Figure 2, Row 47

<400> 130



Leu Gly Arg Glu Asn Ser Arg Ala Glu Val Ser Tyr Val His Val  
1 5 10 15

<210> 131  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 48

<400> 131

Ser Arg Ala Glu Val Ser Tyr Val His Val Asn Gly Ala Lys Phe  
1 5 10 15

*Gz*  
<210> 132  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 49

<400> 132

Ser Tyr Val His Val Asn Gly Ala Lys Phe Ile Asp Thr Gln Asn  
1 5 10 15

<210> 133  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 50

<400> 133

Asn Gly Ala Lys Phe Ile Asp Thr Gln Asn Gly Leu Arg Ile Lys  
1 5 10 15

<210> 134

<211> 15  
 <212> PRT  
 <213> Cryptomeria japonica  
 <220>  
 <221> MISC\_FEATURE  
 <222> (1)..(15)  
 <223> Cryj2 peptide, Figure 2, Row 51

<400> 134

Ile Asp Thr Gln Asn Gly Leu Arg Ile Lys Thr Trp Gln Gly Gly  
 1 5 10 15

<210> 135  
 <211> 15  
 <212> PRT  
 <213> Cryptomeria japonica

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(15)  
 <223> Cryj2 peptide, Figure 2, Row 52

<400> 135

Gly Leu Arg Ile Lys Thr Trp Gln Gly Gly Ser Gly Met Ala Ser  
 1 5 10 15

<210> 136  
 <211> 15  
 <212> PRT  
 <213> Cryptomeria japonica

<220>  
 <221> MISC\_FEATURE  
 <222> (1)..(15)  
 <223> Cryj2 peptide, Figure 2, Row 53

<400> 136

Thr Trp Gln Gly Gly Ser Gly Met Ala Ser His Ile Ile Tyr Glu  
 1 5 10 15

<210> 137  
 <211> 15  
 <212> PRT  
 <213> Cryptomeria japonica

<220>

<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 54

<400> 137

Ser Gly Met Ala Ser His Ile Ile Tyr Glu Asn Val Glu Met Ile  
1 5 10 15

<210> 138  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 55

<400> 138

His Ile Ile Tyr Glu Asn Val Glu Met Ile Asn Ser Glu Asn Pro  
1 5 10 15

<210> 139  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 56

<400> 139

Asn Val Glu Met Ile Asn Ser Glu Asn Pro Ile Leu Ile Asn Gln  
1 5 10 15

<210> 140  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 57

&lt;400&gt; 140

Asn	Ser	Glu	Asn	Pro	Ile	Leu	Ile	Asn	Gln	Phe	Tyr	Cys	Thr	Ser
1			5					10						15

&lt;210&gt; 141

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 58

&lt;400&gt; 141

Ile	Leu	Ile	Asn	Gln	Phe	Tyr	Cys	Thr	Ser	Ala	Ser	Ala	Cys	Gln
1			5					10						15

&lt;210&gt; 142

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 59

&lt;400&gt; 142

Phe	Tyr	Cys	Thr	Ser	Ala	Ser	Ala	Cys	Gln	Asn	Gln	Arg	Ser	Ala
1				5				10						15

&lt;210&gt; 143

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 60

&lt;400&gt; 143

Ala	Ser	Ala	Cys	Gln	Asn	Gln	Arg	Ser	Ala	Val	Gln	Ile	Gln	Asp
1				5				10						15

<210> 144  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 61

<400> 144

Asn	Gln	Arg	Ser	Ala	Val	Gln	Ile	Gln	Asp	Val	Thr	Tyr	Lys	Asn
1			5					10					15	

<210> 145  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

g3  
<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 62

<400> 145

Val	Gln	Ile	Gln	Asp	Val	Thr	Tyr	Lys	Asn	Ile	Arg	Gly	Thr	Ser
1			5					10					15	

<210> 146  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 63

<400> 146

Val	Thr	Tyr	Lys	Asn	Ile	Arg	Gly	Thr	Ser	Ala	Thr	Ala	Ala	Ala
1				5				10					15	

<210> 147  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 64

<400> 147

Ile	Arg	Gly	Thr	Ser	Ala	Thr	Ala	Ala	Ala	Ile	Gln	Leu	Lys	Cys
1				5					10					15

<210> 148  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 65

g3  
<400> 148

Ala	Thr	Ala	Ala	Ala	Ile	Gln	Leu	Lys	Cys	Ser	Asp	Ser	Met	Pro
1				5					10					15

<210> 149  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 66

<400> 149

Ile	Gln	Leu	Lys	Cys	Ser	Asp	Ser	Met	Pro	Cys	Lys	Asp	Ile	Lys
1				5					10					15

<210> 150  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 67

&lt;400&gt; 150

Ser	Asp	Ser	Met	Pro	Cys	Lys	Asp	Ile	Lys	Leu	Ser	Asp	Ile	Ser
1				5					10					15

&lt;210&gt; 151

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 68

&lt;400&gt; 151

Cys	Lys	Asp	Ile	Lys	Leu	Ser	Asp	Ile	Ser	Leu	Lys	Leu	Thr	Ser
1				5					10					15

&lt;210&gt; 152

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 69

&lt;400&gt; 152

Leu	Ser	Asp	Ile	Ser	Leu	Lys	Leu	Thr	Ser	Gly	Lys	Ile	Ala	Ser
1				5					10					15

&lt;210&gt; 153

&lt;211&gt; 15

&lt;212&gt; PRT

&lt;213&gt; Cryptomeria japonica

&lt;220&gt;

&lt;221&gt; MISC\_FEATURE

&lt;222&gt; (1)..(15)

&lt;223&gt; Cryj2 peptide, Figure 2, Row 70

&lt;400&gt; 153

Leu	Lys	Leu	Thr	Ser	Gly	Lys	Ile	Ala	Ser	Cys	Leu	Asn	Asp	Asn
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1                    5                    10                    15

<210> 154  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 71

<400> 154

Gly Lys Ile Ala Ser Cys Leu Asn Asp Asn Ala Asn Gly Tyr Phe  
1                    5                    10                    15

g3  
<210> 155  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 72

<400> 155

Cys Leu Asn Asp Asn Ala Asn Gly Tyr Phe Ser Gly His Val Ile  
1                    5                    10                    15

<210> 156  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 73

<400> 156

Ala Asn Gly Tyr Phe Ser Gly His Val Ile Pro Ala Cys Lys Asn  
1                    5                    10                    15

<210> 157  
<211> 15



<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Cryj2 peptide, Figure 2, Row 74

<400> 157

Ser Gly His Val Ile Pro Ala Cys Lys Asn Leu Ser Pro Ser Ala  
1 5 10 15

<210> 158  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Figure 7, Row a

<400> 158

Lys Ser Met Lys Val Thr Val Ala Phe Asn Gln Phe Gly Pro Asn  
1 5 10 15

<210> 159  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(15)  
<223> Figure 7, Row b

<400> 159

Pro Cys Val Phe Ile Lys Arg Val Ser Asn Val Ile Ile His Gly  
1 5 10 15

<210> 160  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE

<222> (1)..(15)  
<223> Figure 7, Row c

<400> 160

Val	Asp	Gly	Ile	Ile	Ala	Ala	Tyr	Gln	Asn	Pro	Ala	Ser	Trp	Lys
1				5					10					15

<210> 161  
<211> 20  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(20)  
<223> Figure 7, Row d

gz  
<400> 161

Gly	Ile	Asp	Ile	Phe	Ala	Ser	Lys	Asn	Phe	His	Leu	Gln	Lys	Asn	Thr
1				5					10					15	

Ile	Gly	Thr	Gly
			20

<210> 162  
<211> 20  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<222> (1)..(20)  
<223> Figure 7, Row e

<400> 162

Leu	Lys	Leu	Thr	Ser	Gly	Lys	Ile	Ala	Ser	Cys	Leu	Asn	Asp	Asn	Ala
1				5					10					15	

Asn	Gly	Tyr	Phe
			20

<210> 163  
<211> 15  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figure 15, p22-1.

<400> 163

Pro	Cys	Val	Phe	Ile	Lys	Arg	Val	Ser	Asn	Val	Ile	Ile	His	Gly
1				5					10					15

<210> 164  
<211> 14  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figure 15, p22-2.

g3  
<400> 164

Cys	Val	Phe	Ile	Lys	Arg	Val	Ser	Asn	Val	Ile	Ile	His	Gly
1				5					10				

<210> 165  
<211> 13  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figure 15, p22-3.

<400> 165

Val	Phe	Ile	Lys	Arg	Val	Ser	Asn	Val	Ile	Ile	His	Gly
1				5					10			

<210> 166  
<211> 12  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figure 15, p22-4.

<400> 166

Phe Ile Lys Arg Val Ser Asn Val Ile Ile His Gly  
1 5 10

<210> 167  
<211> 11  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figure 15, p22-5.

<400> 167

Ile Lys Arg Val Ser Asn Val Ile Ile His Gly  
1 5 10

g3  
<210> 168  
<211> 10  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figure 15, p22-6.

<400> 168

Lys Arg Val Ser Asn Val Ile Ile His Gly  
1 5 10

<210> 169  
<211> 14  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figure 15, p22-7.

<400> 169

Pro Cys Val Phe Ile Lys Arg Val Ser Asn Val Ile Ile His  
1 5 10

<210> 170  
<211> 13  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figure 15, p22-8.

<400> 170

Pro Cys Val Phe Ile Lys Arg Val Ser Asn Val Ile Ile  
1 5 10

<210> 171  
<211> 12  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figure 15, p22-9.

<400> 171

Pro Cys Val Phe Ile Lys Arg Val Ser Asn Val Ile  
1 5 10

<210> 172  
<211> 11  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figure 15, p22-10.

<400> 172

Pro Cys Val Phe Ile Lys Arg Val Ser Asn Val  
1 5 10

<210> 173  
<211> 10  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figure 15, p22-11.

<400> 173

Pro Cys Val Phe Ile Lys Arg Val Ser Asn  
1 5 10

G3  
<210> 174  
<211> 13  
<212> PRT  
<213> Cryptomeria japonica

<220>  
<221> MISC\_FEATURE  
<223> Figures 17 and 18.

<400> 174

Val Phe Ile Lys Arg Val Ser Asn Val Ile Ile His Gly  
1 5 10

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